

CLAIMS:

1. A color picture screen provided with a blue phosphor layer which comprises a first phosphor having a light emission in the range from 430 to 490 nm and a second phosphor having a light emission in the range from 380 to 450 nm.

2. A color picture screen as claimed in claim 1, characterized in that the second phosphor has a light emission in the range from 380 to 420 nm.

3. A color picture screen as claimed in claim 1, characterized in that the second phosphor is chosen from the group comprising Tb^{3+} -activated phosphors, Eu^{2+} -activated phosphors, Bi^{3+} -activated phosphors, Ga^{3+} -activated phosphors, and Ce^{3+} -activated phosphors.

4. A color picture screen as claimed in claim 3, characterized in that the second phosphor is chosen from the group comprising $LaOBr:Tb$, $Y_2O_2S:Tb$, $Y_3Al_5O_{12}:Tb$, $Ca_3(PO_4)_2:Eu$, $Sr_2P_2O_7:Eu$, $(Sr,Mg)_2P_2O_7:Eu$, $CaB_2P_2O_9:Eu$, $CaSO_4:Eu$, $CaO:Bi$, $ZnO:Ga$ and $(Y,Gd)BO_3:Ce$.

5. A color picture screen as claimed in claim 1, characterized in that the phosphor layer comprises a physical mixture of particles of the first phosphor and particles of the second phosphor.

6. A color picture screen as claimed in claim 5, characterized in that the proportional quantity of the second phosphor in the phosphor layer lies between 5 and 50% by weight in relation to the quantity of the first phosphor.

7. A color picture screen as claimed in claim 1, characterized in that the phosphor layer has a base layer comprising the first phosphor and a covering layer comprising the second phosphor.

- [illegible]